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L1: Entry 1 of 2

File: JPAB

Feb 16, 1999

PUB-NO: JP411042914A

DOCUMENT-IDENTIFIER: JP 11042914 A

TITLE: ONE-STEP SPIKE TIRE

PUBN-DATE: February 16, 1999

INVENTOR-INFORMATION:

NAME

COUNTRY

FUNAHASHI, HIROSHI

ASSIGNEE-INFORMATION:

NAME

COUNTRY

FUNAHASHI HIROSHI

APPL-NO: JP09233215

APPL-DATE: July 25, 1997

INT-CL (IPC): B60 C 11/16

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a safe and road surface friendly tire for winter season in which spike pins can be moved in and out by one-step operation.

SOLUTION: Spike pins 2 are of the movable type and, thus, a tire is formed either in a spike tire or non-spike tire, by one-step operation, by tensioning or loosening a wire 1.

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L1: Entry 2 of 2

File: DWPI

Feb 16, 1999

DERWENT-ACC-NO: 1999-198522

DERWENT-WEEK: 199920

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TITLE: Spike tyre for snowy roads - has spike pin loosened by a wire passing through a hole provided in the lower part

PATENT-ASSIGNEE:

ASSIGNEE

CODE

FUNABASHI H

FUNAI

PRIORITY-DATA: 1997JP-0233215 (July 25, 1997)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>JP 11042914 A</u>	February 16, 1999		003	B60C011/16

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 11042914A	July 25, 1997	1997JP-0233215	

INT-CL (IPC): B60 C 11/16

ABSTRACTED-PUB-NO: JP 11042914A

BASIC-ABSTRACT:

NOVELTY - The tyre has spike pin (2) whose lower part is provided with a hole through which wire (1) is passed through. The spike pin is loosened by operating the wire.

USE - For snowy roads.

ADVANTAGE - The tyre offers high safety when plying on snowy roads during winter. The exfoliation on the tyre is minimised.

DESCRIPTION OF DRAWING - The figure illustrates the sectional drawing of the spike tyre. (1) Wire, (2) Spike pin.

CHOSEN-DRAWING: Dwg.1/5

TITLE-TERMS: SPIKE TYRE ROAD SPIKE PIN LOOSE WIRE PASS THROUGH HOLE LOWER PART

DERWENT-CLASS: A95 Q11

CPI-CODES: A12-T01B;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; H0124*R Polymer Index [1.2] 018 ; ND01 ; K9416 ; Q9999
Q9234 Q9212 ; Q9999 Q9256*R Q9212 ; K9665 ; K9905

SECONDARY-ACC-NO:

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(51) Int.Cl.⁶
B 6 0 C 11/16

識別記号

F I
B 6 0 C 11/16

B

審査請求 未請求 請求項の数 1 書面 (全 3 頁)

(21) 出願番号 特願平9-233215

(22) 出願日 平成9年(1997) 7月25日

(71) 出願人 597123696

舟橋 弘

広島県御調郡向島町14544

(72) 発明者 舟橋 弘

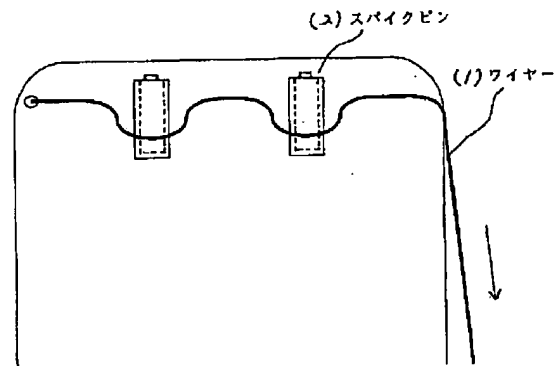
広島県御調郡向島町14544

(54) 【発明の名称】 ワンタッチスパイクタイヤ

(57) 【要約】 (修正有)

【課題】ワンタッチでスパイクピンが出入りする、安全で路面にやさしい冬用タイヤを提供する。

【解決手段】スパイクピン部分を可動式にし、ワイヤー等の張り緩めにより、ワンタッチでスパイクタイヤになったり、ノンスパイクタイヤになったりする。



【特許請求の範囲】

【請求項1】 (1)のワイヤー等を引っ張ることにより、(2)のスパイクピンが出るタイヤ。

【発明の詳細な説明】

【0001】

【発明の属する技術分野】この発明は、スパイクピンをワンタッチで出し入れできる冬用タイヤである。

【0002】

【従来の技術】スパイクタイヤはタイヤにスパイクピンが固定されていた。

【0003】

【発明が解決しようとする課題】これは、次のような欠点があった。

(1) 雪や凍結が無くなると、路面保護のためタイヤ交換しなければならなかった。

(2) タイヤ交換が面倒で、かつスペアタイヤが必要であった。

本発明は、これらの欠点を除くためになされたものである。

【0004】

【課題を解決するための手段】ワンタッチでスパイクピンが出入りする事により、さまざまな路面の状況に対応できるタイヤとなる。

【0005】

【発明の実施の形態】以下、本発明の実施の形態について説明する。

(イ) 通常のスパイクタイヤのスパイクピンの部分を、

可動式とする。

(ロ) ピン下部にあけた穴にワイヤー等を通す。(ワイヤー等とピンは固定しない)

(ハ) ワイヤー等を引っ張ることにより、スパイクピンが出る。

(ニ) ワイヤー等をゆるめると、ワイヤー等の元に戻ろうとする力でスパイクピンが引っ込む。

本発明は以上のような構造で、ワンタッチでスパイクピンが出入りするタイヤになる。

10 【0006】

【発明の効果】急に雪道、凍結路となっても、簡単にスパイクタイヤになり、また、雪、凍結が途切れてもスパイクを引っ込めることができるため、タイヤ交換が不要であり、安全性も高い。

【図面の簡単な説明】

【図1】本発明のスパイク部断面図(スパイク収納時)である。

【図2】本発明のスパイク部断面図(スパイク露出時)である。

20 【図3】本発明のスパイク部拡大図(スパイク収納時)である。

【図4】本発明の正面図である。

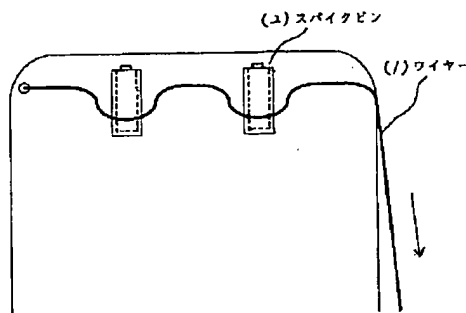
【図5】本発明の側面図である。

【符号の説明】

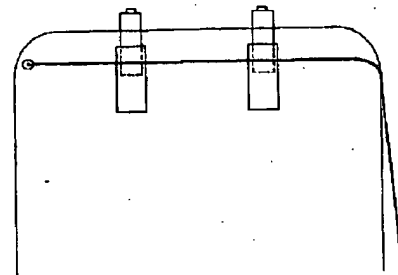
(1) ワイヤー

(2) スパイクピン

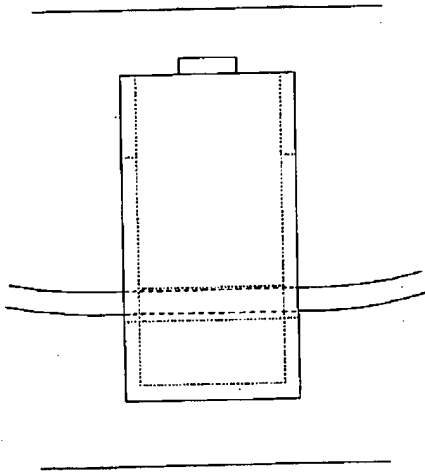
【図1】



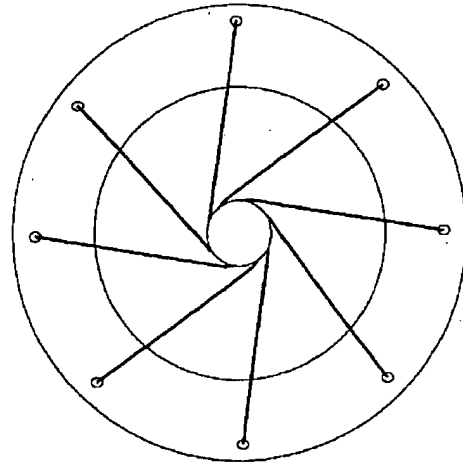
【図2】



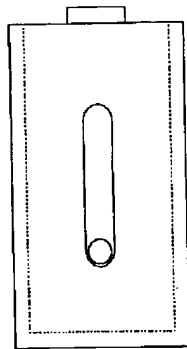
【図3】



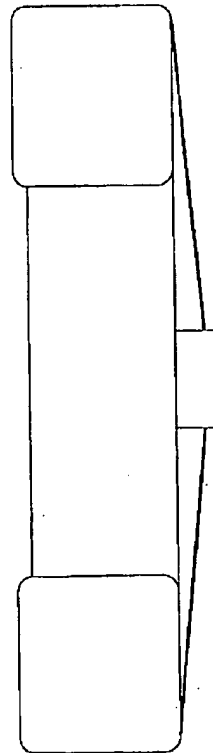
【図4】



【図5】



ピンを90°回転
した図
(ワイヤーは省略した)



* NOTICES *

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] This invention is the tire for winter which can take a spike pin in and out by one-touch.

[0002]

[Description of the Prior Art] As for the spike tire, the spike pin was being fixed to the tire.

[0003]

[Problem(s) to be Solved by the Invention] This had the following defects.

- (1) When snow and freezing were lost, since it was road surface protection, tire exchange had to be carried out.
- (2) Tire exchange was troublesome and the spare tire was required.

This invention is made in order to remove these defects.

[0004]

[Means for Solving the Problem] When a spike pin goes in and out by one-touch, it becomes the tire which can respond to a condition of various road surfaces.

[0005]

[Embodiment of the Invention] Hereafter, the gestalt of operation of this invention is explained.

- (b) Let the portion of the spike pin of the usual spike tire be working.
- (b) It lets a wire etc. pass in the hole made in the pin lower part. (A wire etc. and a pin are not fixed)
- (c) A spike pin comes out by pulling a wire etc.
- (d) If a wire etc. is loosened, a spike pin will withdraw by the force in which it returns [wire].

This inventions are the above structures and become the tire which a spike pin frequents by one-touch.

[0006]

[Effect of the Invention] Since a spike can be retracted even if it becomes a spike tire simply even if it becomes a snowy road and a freezing way suddenly, and snow and freezing break off, tire exchange is unnecessary and safety is also high.

[Translation done.]

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the spike section cross section (at the time of spike receipt) of this invention.

[Drawing 2] It is the spike section cross section (at the time of spike exposure) of this invention.

[Drawing 3] It is the spike section enlarged view (at the time of spike receipt) of this invention.

[Drawing 4] It is the front view of this invention.

[Drawing 5] It is the side elevation of this invention.

[Description of Notations]

(1) Wire

(2) Spike pin

[Translation done.]

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CLAIMS

[Claim(s)]

[Claim 1] A tire out of which a spike pin of (2) comes by pulling a wire of (1) etc.

[Translation done.]